ELSEVIER

Chemical Physics 212 (1996) 497–501

Chemical Physics

Author index to volume 212

Agmon, N. and G.M. Sastry , A temperature-dependent effective potential explains CO binding to myoglobin 212 (1996) 207
Andrés, J., see Camargo, A.C. 212 (1996) 381
Aratono, Y., see Kumada, T. 212 (1996) 177
Atkinson, G.H., see Ujj, L. 212 (1996) 421
Azumi, T., see Tarasov, V.F. 212 (1996) 353

Baltzer, P., see Eland, J.H.D. 212 (1996) 457
Barkai, E. and V. Fleurov , Dissipation and fluctuation for a randomly kicked particle: Normal and anomalous diffusion 212 (1996) 69
Bässler, H., see Tak, Y.-H. 212 (1996) 471
Beltrán, A., see Camargo, A.C. 212 (1996) 381
Benetis, N.P., see Salih, N.A. 212 (1996) 409
Berlin, Yu.A. , Irreversible random transition theory as applied to rate processes in condensed media: Transient effects of constrained configuration rearrangements in complex systems 212 (1996) 29
Bleyer, A., see Tak, Y.-H. 212 (1996) 471
Börjesson, L.E.B. and S. Nordholm , A partially ergodic multiple encounter theory of collisional energy transfer 212 (1996) 393
Boukheddaden, K., see Varret, F. 212 (1996) 487
Braidwood, S., see Zheng, Y. 212 (1996) 269
Brion, C.E., see Zheng, Y. 212 (1996) 269
Brunger, M.J., see Zheng, Y. 212 (1996) 269
Burshtein, A.I. and P.A. Frantsuzov , Remote ionization and recombination through the multichannel electron transfer 212 (1996) 137

Camargo, A.C., J.A. Igualada, A. Beltrán, R. Llusar, E. Longo and J. Andrés , An ab initio perturbed ion study of structural properties of TiO_2, SnO_2 and GeO_2 rutile lattices 212 (1996) 381
Cerny, U., see Obrebski, A. 212 (1996) 311
Chakravorty, S.J., see Zheng, Y. 212 (1996) 269
Chang, I., H. Hartmann, Yu. Krupyanskii, A. Zharikov and F. Parak , Dielectric relaxation models applied to the dynamics of myoglobin as determined by Mössbauer spectroscopy 212 (1996) 221
Chauvet, J.-P., see Laguitton-Pasquier, H. 212 (1996) 437
Collet, A., see Laguitton-Pasquier, H. 212 (1996) 437
Compostizo, A., C. Martín, R.G. Rubio and A. Crespo Colin , Temperature dependence of the density of an ionic micellar system near the critical point 212 (1996) 301
Crespo Colin, A., see Compostizo, A. 212 (1996) 301
Cukier, R.I., see Morillo, M. 212 (1996) 157

Davidson, E.R., see Zheng, Y. 212 (1996) 269
Dedonder-Lardeux, C., C. Jouvet, S. Martrenchard-Barra, D. Solgadi, F. Talbot, M. Vervloet, I. Dimicoli and M. Richard-Viard , Intracluster ion–molecule reactions induced by the synchrotron radiation in allyl bromide–ammonia clusters 212 (1996) 371
De Haas, M.P., see Warman, J.M. 212 (1996) 183
Denk, C., see Morillo, M. 212 (1996) 157
Dimicoli, I., see Dedonder-Lardeux, C. 212 (1996) 371
Dyre, J.C. and J.M. Jacobsen , Universality of anomalous diffusion in extremely disordered systems 212 (1996) 61

Eid, O.I., see Salih, N.A. 212 (1996) 409
Eland, J.H.D., P. Baltzer, M. Lundqvist, B. Wannberg and L. Karlsson , Vibrational structure of the $BrCN^+$ ion from high resolution photoelectron spectroscopy 212 (1996) 457
Ellinger, Y., see Parisel, O. 212 (1996) 331

Faure, J., see Laguitton-Pasquier, H. 212 (1996) 437
Fischer, S.F., see Scharnagl, C. 212 (1996) 231
Fleurov, V., see Barkai, E. 212 (1996) 69
Frantsuzov, P.A., see Burshtein, A.I. 212 (1996) 137

Gelinck, G.H., see Warman, J.M. 212 (1996) 183
Gislason, E.A., see Song, J.-B. 212 (1996) 259
Götze, W. and L. Sjögren , Comments on the mode coupling theory for structural relaxation 212 (1996) 47
Green, N.J.B., R.D. Spencer-Smith and A.G. Rickerby , Recovering boundaries for partly diffusion-controlled reaction kinetics 212 (1996) 99
Grisogono, A.M., see Zheng, Y. 212 (1996) 269
Gudowska-Nowak, E. , Dynamic effects in non-adiabatic charge transfer 212 (1996) 115

Hanus, M., see Parisel, O. 212 (1996) 331
Hartmann, H., see Chang, I. 212 (1996) 221
Hase, W.L., see Wang, H. 212 (1996) 247
Honjou, N. and E. Miyoshi , Ab initio study on the electronic structure of the $4\,^2\Sigma^+$ and $5\,^2\Sigma^+$ excited states of CO^+ 212 (1996) 363
Hörhold, H.-H., see Tak, Y.-H. 212 (1996) 471

Igualada, J.A., see Camargo, A.C. 212 (1996) 381

Jacobsen, J.M., see Dyre, J.C. 212 (1996) 61
Jäger, F., see Ujj, L. 212 (1996) 421
Jouvet, C., see Dedonder-Lardeux, C. 212 (1996) 371

Kaps, T., see Obrebski, A. 212 (1996) 311
Karlsson, L., see Eland, J.H.D. 212 (1996) 457
Klafter, J., see Zumofen, G. 212 (1996) 89
Krupyanskii, Yu., see Chang, I. 212 (1996) 221
Kumada, T., Y. Aratono and T. Miyazaki , Time evolution of the rate constant for the tunneling reaction $H_2 + D \rightarrow H + HD$ in solid D_2–H_2 mixtures at very low temperature 212 (1996) 177

Laguitton-Pasquier, H., R. Pansu, J.-P. Chauvet, A. Collet, J. Faure and R. Lapouyade , The charge transfer state of excited bianthryl and a derivative: solvatochromism, emission CT spectra broadening in homogeneous solvents 212 (1996) 437
Lapouyade, R., see Laguitton-Pasquier, H. 212 (1996) 437
Linares, J., see Varret, F. 212 (1996) 487
Lindgren, M., see Salih, N.A. 212 (1996) 409
Llusar, R., see Camargo, A.C. 212 (1996) 381
Longo, E., see Camargo, A.C. 212 (1996) 381
Lund, A., see Salih, N.A. 212 (1996) 409
Lundqvist, M., see Eland, J.H.D. 212 (1996) 457

Maeda, K., see Tarasov, V.F. 212 (1996) 353
Martín, C., see Compostizo, A. 212 (1996) 301
Martrenchard-Barra, S., see Dedonder-Lardeux, C. 212 (1996) 371
Miyazaki, T., see Kumada, T. 212 (1996) 177
Miyoshi, E., see Honjou, N. 212 (1996) 363
Morillo, M., C. Denk and R.I. Cukier , Control of tunneling reactions with an external field in a four-level system: A general Redfield approach 212 (1996) 157
Motylewski, T., J. Najbar and M. Tachiya , Competitive electron transfers in model triad systems: continuum model approach 212 (1996) 193

Najbar, J., see Motylewski, T. 212 (1996) 193
Nordholm, S., see Börjesson, L.E.B. 212 (1996) 393

Obrebski, A., T. Kaps and U. Cerny , Development and interconnections of the temperatures in the translational, rotational and vibrational degrees of freedom in a potassium monomer/dimer beam 212 (1996) 311

Pansu, R., see Laguitton-Pasquier, H. 212 (1996) 437
Parak, F., see Chang, I. 212 (1996) 221
Parisel, O., M. Hanus and Y. Ellinger , Interstellar silicon–nitrogen chemistry. I. The microwave and the infrared signatures of the HSiN, HNSi, $HSiNH_2$, $HNSiH_2$ and $HSiNH^+$ species 212 (1996) 331
Paszkiewicz, A., see Plonka, A. 212 (1996) 1
Phillips, J.C. , Kohlrausch relaxation in electronic and molecular glasses 212 (1996) 41
Plonka, A. and A. Paszkiewicz , Phenomenological interpretation of kinetics with time-dependent specific reaction rates 212 (1996) 1
Popp, A., see Ujj, L. 212 (1996) 421

Richard-Viard, M., see Dedonder-Lardeux, C. 212 (1996) 371
Rickerby, A.G., see Green, N.J.B. 212 (1996) 99
Robinson, G.W., see Singh, S. 212 (1996) 125
Rubio, R.G., see Compostizo, A. 212 (1996) 301

Sagstuen, E., see Salih, N.A. 212 (1996) 409
Salih, N.A., O.I. Eid, N.P. Benetis, M. Lindgren, A. Lund and E. Sagstuen , Reversible conformation change of free radicals in X-irradiated glutarimide single crystals studied by ENDOR 212 (1996) 409

Sastry, G.M., see Agmon, N. 212 (1996) 207
Scharnagl, C. and S.F. Fischer , Conformational flexibility of arginine-82 as source for the heterogeneous and pH-dependent kinetics of the primary proton transfer step in the bacteriorhodopsin photocycle: An electrostatic model 212 (1996) 231
Schouten, P.G., see Warman, J.M. 212 (1996) 183
Sgamellotti, A., see Zheng, Y. 212 (1996) 269
Shkrob, I.A., see Tarasov, V.F. 212 (1996) 353
Shlesinger, M.F., see Zumofen, G. 212 (1996) 89
Singh, S. and G.W. Robinson , An analytical study of the Berezhkovskii–Pollak–Zitserman theory of rate processes in the critical region. II. The critical coupling plane 212 (1996) 125
Sjögren, L., see Götze, W. 212 (1996) 47
Solgadi, D., see Dedonder-Lardeux, C. 212 (1996) 371
Song, J.-B. and E.A. Gislason , A theoretical test of the pairwise energy model for reactive cross sections 212 (1996) 259
Spencer-Smith, R.D., see Green, N.J.B. 212 (1996) 99
Stockmann, R., see Tak, Y.-H. 212 (1996) 471
Sumi, H. , Condition for fractional-power viscosity dependence of the average rate constant of solution reactions influenced by slow solvent fluctuations 212 (1996) 9
Syutkin, V.M. and V.A. Tolkatchev , Peculiarities of the diffusion of silver and sodium ions in phosphate glasses with a high content of Na_2O 212 (1996) 149

Tachiya, M., see Motylewski, T. 212 (1996) 193
Tak, Y.-H., H. Vestweber, H. Bässler, A. Bleyer, R. Stockmann and H.-H. Hörhold , Time-resolved electroluminescence from single and bilayer LEDs based upon substituted poly-arylenevinylenes 212 (1996) 471
Talbot, F., see Dedonder-Lardeux, C. 212 (1996) 371
Tarasov, V.F., H. Yashiro, K. Maeda, T. Azumi and I.A. Shkrob , Spin-correlated radical pairs in micellar systems: mechanism of CIDEP and the micelle size dependence 212 (1996) 353
Tolkatchev, V.A., see Syutkin, V.M. 212 (1996) 149

Ujj, L., F. Jäger, A. Popp and G.H. Atkinson , Vibrational spectrum of the K-590 intermediate in the bacteriorhodopsin photocycle at room temperature: picosecond time-resolved resonance coherent anti-Raman spectroscopy 212 (1996) 421

Varret, F., J. Linares and K. Boukheddaden , A double origin proposed for the various Mössbauer spectra of biferrocenium salts: charge ordering and molecular bistability 212 (1996) 487
Vervloet, M., see Dedonder-Lardeux, C. 212 (1996) 371
Vestweber, H., see Tak, Y.-H. 212 (1996) 471
Von Niessen, W., see Zheng, Y. 212 (1996) 269

Wang, H. and W.L. Hase , Reaction path Hamiltonian analysis of the dynamics for $Cl^- + CH_3Br \rightarrow ClCH_3 + Br^-$ S_N2 nucleophilic substitution 212 (1996) 247
Wannberg, B., see Eland, J.H.D. 212 (1996) 457
Warman, J.M., P.G. Schouten, G.H. Gelinck and M.P. de Haas , The disperse kinetics of intercolumnar charge recombination in pulse-irradiated mesomorphic phthalocyanines 212 (1996) 183
Weigold, E., see Zheng, Y. 212 (1996) 269

Yashiro, H., see Tarasov, V.F. 212 (1996) 353

Zhao, K., see Zheng, Y. 212 (1996) 269
Zharikov, A., see Chang, I. 212 (1996) 221
Zheng, Y., C.E. Brion, M.J. Brunger, K. Zhao, A.M. Grisogono, S. Braidwood, E. Weigold, S.J. Chakravorty, E.R. Davidson, A. Sgamellotti and W. von Niessen , Orbital momentum profiles and binding energy spectra for the complete valence shell of molecular fluorine 212 (1996) 269
Zumofen, G., J. Klafter and M.F. Shlesinger , Reactions controlled by enhanced diffusion: Deterministic and stochastic approaches 212 (1996) 89

ELSEVIER

Chemical Physics 212 (1996) 503–514

Chemical Physics

Subject index to volume 212

Methods

Theoretical

Classical mechanics

Reaction path Hamiltonian analysis of the dynamics for $Cl^- + CH_3Br \rightarrow ClCH_3 + Br^-$ S_N2 nucleophilic substitution, H. Wang and W.L. Hase 212 (1996) 247

A theoretical test of the pairwise energy model for reactive cross sections, J.-B. Song and E.A. Gislason 212 (1996) 259

Many body and quasiparticle approaches

Reactions controlled by enhanced diffusion: Deterministic and stochastic approaches, G. Zumofen, J. Klafter and M.F. Shlesinger 212 (1996) 89

Recovering boundaries for partly diffusion-controlled reaction kinetics, N.J.B. Green, R.D. Spencer-Smith and A.G. Rickerby 212 (1996) 99

Control of tunneling reactions with an external field in a four-level system: A general Redfield approach, M. Morillo, C. Denk and R.I. Cukier 212 (1996) 157

Orbital momentum profiles and binding energy spectra for the complete valence shell of molecular fluorine, Y. Zheng, C.E. Brion, M.J. Brunger, K. Zhao, A.M. Grisogono, S. Braidwood, E. Weigold, S.J. Chakravorty, E.R. Davidson, A. Sgamellotti and W. von Niessen 212 (1996) 269

Coupling schemes and perturbative treatments

Condition for fractional-power viscosity dependence of the average rate constant of solution reactions influenced by slow solvent fluctuations, H. Sumi 212 (1996) 9

Irreversible random transition theory as applied to rate processes in condensed media: Transient effects of constrained configuration rearrangements in complex systems, Yu.A. Berlin 212 (1996) 29

Transport quantum mechanics

Universality of anomalous diffusion in extremely disordered systems, J.C. Dyre and J.M. Jacobsen 212 (1996) 61

Remote ionization and recombination through the multichannel electron transfer, A.I. Burshtein and P.A. Frantsuzov 212 (1996) 137

Conformational flexibility of arginine-82 as source for the heterogeneous and pH-dependent kinetics of the primary proton transfer step in the bacteriorhodopsin photocycle: An electrostatic model, C. Scharnagl and S.F. Fischer 212 (1996) 231

Equilibrium statistical mechanics
Temperature dependence of the density of an ionic micellar system near the critical point, A. Compostizo, C. Martín, R.G. Rubio and A. Crespo Colin 212 (1996) 301

Statistical mechanics of stationary states
An analytical study of the Berezhkovskii–Pollak–Zitserman theory of rate processes in the critical region. II. The critical coupling plane, S. Singh and G.W. Robinson 212 (1996) 125

Non-equilibrium thermodynamic and hydrodynamic theories
Kohlrausch relaxation in electronic and molecular glasses, J.C. Phillips 212 (1996) 41
Dissipation and fluctuation for a randomly kicked particle: Normal and anomalous diffusion, E. Barkai and V. Fleurov 212 (1996) 69
Competitive electron transfers in model triad systems: continuum model approach, T. Motylewski, J. Najbar and M. Tachiya 212 (1996) 193
Development and interconnections of the temperatures in the translational, rotational and vibrational degrees of freedom in a potassium monomer/dimer beam, A. Obrebski, T. Kaps and U. Cerny 212 (1996) 311

Ab initio schemes for stationary properties
Comments on the mode coupling theory for structural relaxation, W. Götze and L. Sjögren 212 (1996) 47
Interstellar silicon–nitrogen chemistry. I. The microwave and the infrared signatures of the HSiN, HNSi, $HSiNH_2$, $HNSiH_2$ and $HSiNH^+$ species, O. Parisel, M. Hanus and Y. Ellinger 212 (1996) 331
Ab initio study on the electronic structure of the $4\,^2\Sigma^+$ and $5\,^2\Sigma^+$ excited states of CO^+, N. Honjou and E. Miyoshi 212 (1996) 363
Intracluster ion–molecule reactions induced by the synchrotron radiation in allyl bromide–ammonia clusters, C. Dedonder-Lardeux, C. Jouvet, S. Martrenchard-Barra, D. Solgadi, F. Talbot, M. Vervloet, I. Dimicoli and M. Richard-Viard 212 (1996) 371
An ab initio perturbed ion study of structural properties of TiO_2, SnO_2 and GeO_2 rutile lattices, A.C. Camargo, J.A. Igualada, A. Beltrán, R. Llusar, E. Longo and J. Andrés 212 (1996) 381

Computational and simulation methods
Phenomenological interpretation of kinetics with time-dependent specific reaction rates, A. Plonka and A. Paszkiewicz 212 (1996) 1
Kohlrausch relaxation in electronic and molecular glasses, J.C. Phillips 212 (1996) 41
Universality of anomalous diffusion in extremely disordered systems, J.C. Dyre and J.M. Jacobsen 212 (1996) 61
Reactions controlled by enhanced diffusion: Deterministic and stochastic approaches, G. Zumofen, J. Klafter and M.F. Shlesinger 212 (1996) 89
A temperature-dependent effective potential explains CO binding to myoglobin, N. Agmon and G.M. Sastry 212 (1996) 207
Dielectric relaxation models applied to the dynamics of myoglobin as determined by Mössbauer spectroscopy, I. Chang, H. Hartmann, Yu. Krupyanskii, A. Zharikov and F. Parak 212 (1996) 221
Conformational flexibility of arginine-82 as source for the heterogeneous and pH-dependent kinetics of the primary proton transfer step in the bacteriorhodopsin photocycle: An electrostatic model, C. Scharnagl and S.F. Fischer 212 (1996) 231
Reaction path Hamiltonian analysis of the dynamics for $Cl^- + CH_3Br \rightarrow ClCH_3 + Br^-$ S_N2 nucleophilic substitution, H. Wang and W.L. Hase 212 (1996) 247

Spin-correlated radical pairs in micellar systems: mechanism of CIDEP and the micelle size dependence, V.F. Tarasov, H. Yashiro, K. Maeda, T. Azumi and I.A. Shkrob 212 (1996) 353
An ab initio perturbed ion study of structural properties of TiO_2, SnO_2 and GeO_2 rutile lattices, A.C. Camargo, J.A. Igualada, A. Beltrán, R. Llusar, E. Longo and J. Andrés 212 (1996) 381

Molecular dynamics and scattering theory
Kohlrausch relaxation in electronic and molecular glasses, J.C. Phillips 212 (1996) 41
Dynamic effects in non-adiabatic charge transfer, E. Gudowska-Nowak 212 (1996) 115
Reaction path Hamiltonian analysis of the dynamics for $Cl^- + CH_3Br \rightarrow ClCH_3 + Br^-$ S_N2 nucleophilic substitution, H. Wang and W.L. Hase 212 (1996) 247
A theoretical test of the pairwise energy model for reactive cross sections, J.-B. Song and E.A. Gislason 212 (1996) 259
A partially ergodic multiple encounter theory of collisional energy transfer, L.E.B. Börjesson and S. Nordholm 212 (1996) 393

Experimental

Magnetic resonances
Time evolution of the rate constant for the tunneling reaction $H_2 + D \rightarrow H + HD$ in solid D_2–H_2 mixtures at very low temperature, T. Kumada, Y. Aratono and T. Miyazaki 212 (1996) 177
Reversible conformation change of free radicals in X-irradiated glutarimide single crystals studied by ENDOR, N.A. Salih, O.I. Eid, N.P. Benetis, M. Lindgren, A. Lund and E. Sagstuen 212 (1996) 409

Raman spectroscopy
Vibrational spectrum of the K-590 intermediate in the bacteriorhodopsin photocycle at room temperature: picosecond time-resolved resonance coherent anti-Raman spectroscopy, L. Ujj, F. Jäger, A. Popp and G.H. Atkinson 212 (1996) 421

Visible and UV spectroscopy
A temperature-dependent effective potential explains CO binding to myoglobin, N. Agmon and G.M. Sastry 212 (1996) 207

Fluorescence spectroscopy
The charge transfer state of excited bianthryl and a derivative: solvatochromism, emission CT spectra broadening in homogeneous solvents, H. Laguitton-Pasquier, R. Pansu, J.-P. Chauvet, A. Collet, J. Faure and R. Lapouyade 212 (1996) 437

Photoelectron and Auger spectroscopy
Vibrational structure of the $BrCN^+$ ion from high resolution photoelectron spectroscopy, J.H.D. Eland, P. Baltzer, M. Lundqvist, B. Wannberg, L. and Karlsson 212 (1996) 457

Electron impact spectroscopy
Orbital momentum profiles and binding energy spectra for the complete valence shell of molecular fluorine, Y. Zheng, C.E. Brion, M.J. Brunger, K. Zhao, A.M. Grisogono, S. Braidwood, E. Weigold, S.J. Chakravorty, E.R. Davidson, A. Sgamellotti and W. von Niessen 212 (1996) 269

Picosecond spectroscopy
Vibrational spectrum of the K-590 intermediate in the bacteriorhodopsin photocycle at room temperature: picosecond time-resolved resonance coherent anti-Raman spectroscopy, L. Ujj, F. Jäger, A. Popp and G.H. Atkinson 212 (1996) 421

Synchrotron spectroscopies
Intracluster ion–molecule reactions induced by the synchrotron radiation in allyl bromide–ammonia clusters, C. Dedonder-Lardeux, C. Jouvet, S. Martrenchard-Barra, D. Solgadi, F. Talbot, M. Vervloet, I. Dimicoli and M. Richard-Viard 212 (1996) 371

Atomic and molecular beam techniques
Intracluster ion–molecule reactions induced by the synchrotron radiation in allyl bromide–ammonia clusters, C. Dedonder-Lardeux, C. Jouvet, S. Martrenchard-Barra, D. Solgadi, F. Talbot, M. Vervloet, I. Dimicoli and M. Richard-Viard 212 (1996) 371

Time-resolved experiments
The disperse kinetics of intercolumnar charge recombination in pulse-irradiated mesomorphic phthalocyanines, J.M. Warman, P.G. Schouten, G.H. Gelinck and M.P. de Haas 212 (1996) 183
Spin-correlated radical pairs in micellar systems: mechanism of CIDEP and the micelle size dependence, V.F. Tarasov, H. Yashiro, K. Maeda, T. Azumi and I.A. Shkrob 212 (1996) 353
Vibrational spectrum of the K-590 intermediate in the bacteriorhodopsin photocycle at room temperature: picosecond time-resolved resonance coherent anti-Raman spectroscopy, L. Ujj, F. Jäger, A. Popp and G.H. Atkinson 212 (1996) 421
Time-resolved electroluminescence from single and bilayer LEDs based upon substituted poly-arylenevinylenes, Y.-H. Tak, H. Vestweber, H. Bässler, A. Bleyer, R. Stockmann and H.-H. Hörhold 212 (1996) 471

Mass spectrometry
Intracluster ion–molecule reactions induced by the synchrotron radiation in allyl bromide–ammonia clusters, C. Dedonder-Lardeux, C. Jouvet, S. Martrenchard-Barra, D. Solgadi, F. Talbot, M. Vervloet, I. Dimicoli and M. Richard-Viard 212 (1996) 371

Radiolysis
Time evolution of the rate constant for the tunneling reaction $H_2 + D \rightarrow H + HD$ in solid D_2–H_2 mixtures at very low temperature, T. Kumada, Y. Aratono and T. Miyazaki 212 (1996) 177

Mössbauer spectroscopy
Dielectric relaxation models applied to the dynamics of myoglobin as determined by Mössbauer spectroscopy, I. Chang, H. Hartmann, Yu. Krupyanskii, A. Zharikov and F. Parak 212 (1996) 221
A double origin proposed for the various Mössbauer spectra of biferrocenium salts: charge ordering and molecular bistability, F. Varret, J. Linares and K. Boukheddaden 212 (1996) 487

Measurement of macroscopic variables
Peculiarities of the diffusion of silver and sodium ions in phosphate glasses with a high content of Na_2O, V.M. Syutkin and V.A. Tolkatchev 212 (1996) 149

Objects

Bulk systems

Gases

Orbital momentum profiles and binding energy spectra for the complete valence shell of molecular fluorine, Y. Zheng, C.E. Brion, M.J. Brunger, K. Zhao, A.M. Grisogono, S. Braidwood, E. Weigold, S.J. Chakravorty, E.R. Davidson, A. Sgamellotti and W. von Niessen 212 (1996) 269

Vibrational structure of the $BrCN^+$ ion from high resolution photoelectron spectroscopy, J.H.D. Eland, P. Baltzer, M. Lundqvist, B. Wannberg, L. and Karlsson 212 (1996) 457

Supersonic beams

Development and interconnections of the temperatures in the translational, rotational and vibrational degrees of freedom in a potassium monomer/dimer beam, A. Obrebski, T. Kaps and U. Cerny 212 (1996) 311

Liquids neat

An analytical study of the Berezhkovskii–Pollak–Zitserman theory of rate processes in the critical region. II. The critical coupling plane, S. Singh and G.W. Robinson 212 (1996) 125

Liquid mixtures and solutions

Condition for fractional-power viscosity dependence of the average rate constant of solution reactions influenced by slow solvent fluctuations, H. Sumi 212 (1996) 9

Recovering boundaries for partly diffusion-controlled reaction kinetics, N.J.B. Green, R.D. Spencer-Smith and A.G. Rickerby 212 (1996) 99

An analytical study of the Berezhkovskii–Pollak–Zitserman theory of rate processes in the critical region. II. The critical coupling plane, S. Singh and G.W. Robinson 212 (1996) 125

Temperature dependence of the density of an ionic micellar system near the critical point, A. Compostizo, C. Martín, R.G. Rubio and A. Crespo Colin 212 (1996) 301

Spin-correlated radical pairs in micellar systems: mechanism of CIDEP and the micelle size dependence, V.F. Tarasov, H. Yashiro, K. Maeda, T. Azumi and I.A. Shkrob 212 (1996) 353

Crystals

An ab initio perturbed ion study of structural properties of TiO_2, SnO_2 and GeO_2 rutile lattices, A.C. Camargo, J.A. Igualada, A. Beltrán, R. Llusar, E. Longo and J. Andrés 212 (1996) 381

A double origin proposed for the various Mössbauer spectra of biferrocenium salts: charge ordering and molecular bistability, F. Varret, J. Linares and K. Boukheddaden 212 (1996) 487

-neat

Reversible conformation change of free radicals in X-irradiated glutarimide single crystals studied by ENDOR, N.A. Salih, O.I. Eid, N.P. Benetis, M. Lindgren, A. Lund and E. Sagstuen 212 (1996) 409

-mixed

Dielectric relaxation models applied to the dynamics of myoglobin as determined by Mössbauer spectroscopy, I. Chang, H. Hartmann, Yu. Krupyanskii, A. Zharikov and F. Parak 212 (1996) 221

Glasses
Kohlrausch relaxation in electronic and molecular glasses, J.C. Phillips 212 (1996) 41
Comments on the mode coupling theory for structural relaxation, W. Götze and L. Sjögren 212 (1996) 47
Peculiarities of the diffusion of silver and sodium ions in phosphate glasses with a high content of Na_2O, V.M. Syutkin and V.A. Tolkatchev 212 (1996) 149

Liquid crystals
The disperse kinetics of intercolumnar charge recombination in pulse-irradiated mesomorphic phthalocyanines, J.M. Warman, P.G. Schouten, G.H. Gelinck and M.P. de Haas 212 (1996) 183

Polymers
Irreversible random transition theory as applied to rate processes in condensed media: Transient effects of constrained configuration rearrangements in complex systems, Yu.A. Berlin 212 (1996) 29
Time-resolved electroluminescence from single and bilayer LEDs based upon substituted poly-arylenevinylenes, Y.-H. Tak, H. Vestweber, H. Bässler, A. Bleyer, R. Stockmann and H.-H. Hörhold 212 (1996) 471

Thin films
Time-resolved electroluminescence from single and bilayer LEDs based upon substituted poly-arylenevinylenes, Y.-H. Tak, H. Vestweber, H. Bässler, A. Bleyer, R. Stockmann and H.-H. Hörhold 212 (1996) 471

Biological systems
Dynamic effects in non-adiabatic charge transfer, E. Gudowska-Nowak 212 (1996) 115
Dielectric relaxation models applied to the dynamics of myoglobin as determined by Mössbauer spectroscopy, I. Chang, H. Hartmann, Yu. Krupyanskii, A. Zharikov and F. Parak 212 (1996) 221
Conformational flexibility of arginine-82 as source for the heterogeneous and pH-dependent kinetics of the primary proton transfer step in the bacteriorhodopsin photocycle: An electrostatic model, C. Scharnagl and S.F. Fischer 212 (1996) 231
Vibrational spectrum of the K-590 intermediate in the bacteriorhodopsin photocycle at room temperature: picosecond time-resolved resonance coherent anti-Raman spectroscopy, L. Ujj, F. Jäger, A. Popp and G.H. Atkinson 212 (1996) 421

Microscopic systems

Atoms
Time evolution of the rate constant for the tunneling reaction $H_2 + D \rightarrow H + HD$ in solid D_2–H_2 mixtures at very low temperature, T. Kumada, Y. Aratono and T. Miyazaki 212 (1996) 177

Molecules (neutral and ionic)
Development and interconnections of the temperatures in the translational, rotational and vibrational degrees of freedom in a potassium monomer/dimer beam, A. Obrebski, T. Kaps and U. Cerny 212 (1996) 311
Ab initio study on the electronic structure of the $4\,^2\Sigma^+$ and $5\,^2\Sigma^+$ excited states of CO^+, N. Honjou and E. Miyoshi 212 (1996) 363

-diatomic

Orbital momentum profiles and binding energy spectra for the complete valence shell of molecular fluorine, Y. Zheng, C.E. Brion, M.J. Brunger, K. Zhao, A.M. Grisogono, S. Braidwood, E. Weigold, S.J. Chakravorty, E.R. Davidson, A. Sgamellotti and W. von Niessen 212 (1996) 269

Ab initio study on the electronic structure of the $4\,^2\Sigma^+$ and $5\,^2\Sigma^+$ excited states of CO^+, N. Honjou and E. Miyoshi 212 (1996) 363

-small polyatomics

Interstellar silicon–nitrogen chemistry. I. The microwave and the infrared signatures of the HSiN, HNSi, $HSiNH_2$, $HNSiH_2$ and $HSiNH^+$ species, O. Parisel, M. Hanus and Y. Ellinger 212 (1996) 331

Vibrational structure of the $BrCN^+$ ion from high resolution photoelectron spectroscopy, J.H.D. Eland, P. Baltzer, M. Lundqvist, B. Wannberg, L. and Karlsson 212 (1996) 457

-aromatics

The charge transfer state of excited bianthryl and a derivative: solvatochromism, emission CT spectra broadening in homogeneous solvents, H. Laguitton-Pasquier, R. Pansu, J.-P. Chauvet, A. Collet, J. Faure and R. Lapouyade 212 (1996) 437

-polymeric and biological

A temperature-dependent effective potential explains CO binding to myoglobin, N. Agmon and G.M. Sastry 212 (1996) 207

Molecular aggregates

The disperse kinetics of intercolumnar charge recombination in pulse-irradiated mesomorphic phthalocyanines, J.M. Warman, P.G. Schouten, G.H. Gelinck and M.P. de Haas 212 (1996) 183

-clusters

Spin-correlated radical pairs in micellar systems: mechanism of CIDEP and the micelle size dependence, V.F. Tarasov, H. Yashiro, K. Maeda, T. Azumi and I.A. Shkrob 212 (1996) 353

Intracluster ion–molecule reactions induced by the synchrotron radiation in allyl bromide–ammonia clusters, C. Dedonder-Lardeux, C. Jouvet, S. Martrenchard-Barra, D. Solgadi, F. Talbot, M. Vervloet, I. Dimicoli and M. Richard-Viard 212 (1996) 371

-complexes

Irreversible random transition theory as applied to rate processes in condensed media: Transient effects of constrained configuration rearrangements in complex systems, Yu.A. Berlin 212 (1996) 29

Quasiparticles (including excitons)

Remote ionization and recombination through the multichannel electron transfer, A.I. Burshtein and P.A. Frantsuzov 212 (1996) 137

Ions and charge carriers

Remote ionization and recombination through the multichannel electron transfer, A.I. Burshtein and P.A. Frantsuzov 212 (1996) 137

Peculiarities of the diffusion of silver and sodium ions in phosphate glasses with a high content of Na_2O, V.M. Syutkin and V.A. Tolkatchev 212 (1996) 149
The disperse kinetics of intercolumnar charge recombination in pulse-irradiated mesomorphic phthalocyanines, J.M. Warman, P.G. Schouten, G.H. Gelinck and M.P. de Haas 212 (1996) 183

Phenomena

Molecular structure

Interstellar silicon–nitrogen chemistry. I. The microwave and the infrared signatures of the HSiN, HNSi, $HSiNH_2$, $HNSiH_2$ and $HSiNH^+$ species, O. Parisel, M. Hanus and Y. Ellinger 212 (1996) 331

Vibrations and rotations of molecules

Development and interconnections of the temperatures in the translational, rotational and vibrational degrees of freedom in a potassium monomer/dimer beam, A. Obrebski, T. Kaps and U. Cerny 212 (1996) 311
Interstellar silicon–nitrogen chemistry. I. The microwave and the infrared signatures of the HSiN, HNSi, $HSiNH_2$, $HNSiH_2$ and $HSiNH^+$ species, O. Parisel, M. Hanus and Y. Ellinger 212 (1996) 331
Vibrational spectrum of the K-590 intermediate in the bacteriorhodopsin photocycle at room temperature: picosecond time-resolved resonance coherent anti-Raman spectroscopy, L. Ujj, F. Jäger, A. Popp and G.H. Atkinson 212 (1996) 421
Vibrational structure of the $BrCN^+$ ion from high resolution photoelectron spectroscopy, J.H.D. Eland, P. Baltzer, M. Lundqvist, B. Wannberg, L. and Karlsson 212 (1996) 457

Electronic structure and states

Orbital momentum profiles and binding energy spectra for the complete valence shell of molecular fluorine, Y. Zheng, C.E. Brion, M.J. Brunger, K. Zhao, A.M. Grisogono, S. Braidwood, E. Weigold, S.J. Chakravorty, E.R. Davidson, A. Sgamellotti and W. von Niessen 212 (1996) 269
Interstellar silicon–nitrogen chemistry. I. The microwave and the infrared signatures of the HSiN, HNSi, $HSiNH_2$, $HNSiH_2$ and $HSiNH^+$ species, O. Parisel, M. Hanus and Y. Ellinger 212 (1996) 331
Ab initio study on the electronic structure of the $4\,^2\Sigma^+$ and $5\,^2\Sigma^+$ excited states of CO^+, N. Honjou and E. Miyoshi 212 (1996) 363
An ab initio perturbed ion study of structural properties of TiO_2, SnO_2 and GeO_2 rutile lattices, A.C. Camargo, J.A. Igualada, A. Beltrán, R. Llusar, E. Longo and J. Andrés 212 (1996) 381
Reversible conformation change of free radicals in X-irradiated glutarimide single crystals studied by ENDOR, N.A. Salih, O.I. Eid, N.P. Benetis, M. Lindgren, A. Lund and E. Sagstuen 212 (1996) 409
Vibrational structure of the $BrCN^+$ ion from high resolution photoelectron spectroscopy, J.H.D. Eland, P. Baltzer, M. Lundqvist, B. Wannberg, L. and Karlsson 212 (1996) 457
A double origin proposed for the various Mössbauer spectra of biferrocenium salts: charge ordering and molecular bistability, F. Varret, J. Linares and K. Boukheddaden 212 (1996) 487

Electric and magnetic properties
Peculiarities of the diffusion of silver and sodium ions in phosphate glasses with a high content of Na_2O, V.M. Syutkin and V.A. Tolkatchev 212 (1996) 149
Reversible conformation change of free radicals in X-irradiated glutarimide single crystals studied by ENDOR, N.A. Salih, O.I. Eid, N.P. Benetis, M. Lindgren, A. Lund and E. Sagstuen 212 (1996) 409

Spin splittings
Spin-correlated radical pairs in micellar systems: mechanism of CIDEP and the micelle size dependence, V.F. Tarasov, H. Yashiro, K. Maeda, T. Azumi and I.A. Shkrob 212 (1996) 353

Spectral bandshapes and intensities
Comments on the mode coupling theory for structural relaxation, W. Götze and L. Sjögren 212 (1996) 47
The charge transfer state of excited bianthryl and a derivative: solvatochromism, emission CT spectra broadening in homogeneous solvents, H. Laguitton-Pasquier, R. Pansu, J.-P. Chauvet, A. Collet, J. Faure and R. Lapouyade 212 (1996) 437

Coupling of electronic and nuclear motion
A double origin proposed for the various Mössbauer spectra of biferrocenium salts: charge ordering and molecular bistability, F. Varret, J. Linares and K. Boukheddaden 212 (1996) 487

Energy transfer processes
Reaction path Hamiltonian analysis of the dynamics for $Cl^- + CH_3Br \rightarrow ClCH_3 + Br^-$ S_N2 nucleophilic substitution, H. Wang and W.L. Hase 212 (1996) 247
Development and interconnections of the temperatures in the translational, rotational and vibrational degrees of freedom in a potassium monomer/dimer beam, A. Obrebski, T. Kaps and U. Cerny 212 (1996) 311
A partially ergodic multiple encounter theory of collisional energy transfer, L.E.B. Börjesson and S. Nordholm 212 (1996) 393

Molecular photophysical processes
Conformational flexibility of arginine-82 as source for the heterogeneous and pH-dependent kinetics of the primary proton transfer step in the bacteriorhodopsin photocycle: An electrostatic model, C. Scharnagl and S.F. Fischer 212 (1996) 231
The charge transfer state of excited bianthryl and a derivative: solvatochromism, emission CT spectra broadening in homogeneous solvents, H. Laguitton-Pasquier, R. Pansu, J.-P. Chauvet, A. Collet, J. Faure and R. Lapouyade 212 (1996) 437

Intramolecular dynamics
Dynamic effects in non-adiabatic charge transfer, E. Gudowska-Nowak 212 (1996) 115
Dielectric relaxation models applied to the dynamics of myoglobin as determined by Mössbauer spectroscopy, I. Chang, H. Hartmann, Yu. Krupyanskii, A. Zharikov and F. Parak 212 (1996) 221

Luminescence spectra, yields and lifetimes
Time-resolved electroluminescence from single and bilayer LEDs based upon substituted poly-arylenevinylenes, Y.-H. Tak, H. Vestweber, H. Bässler, A. Bleyer, R. Stockmann and H.-H. Hörhold 212 (1996) 471

Coherence loss processes
Kohlrausch relaxation in electronic and molecular glasses, J.C. Phillips 212 (1996) 41

Reactions (including dissociation)

-gas phase
Reaction path Hamiltonian analysis of the dynamics for $Cl^- + CH_3Br \rightarrow ClCH_3 + Br^-$ S_N2 nucleophilic substitution, H. Wang and W.L. Hase 212 (1996) 247
A theoretical test of the pairwise energy model for reactive cross sections, J.-B. Song and E.A. Gislason 212 (1996) 259

-condensed phase
Phenomenological interpretation of kinetics with time-dependent specific reaction rates, A. Plonka and A. Paszkiewicz 212 (1996) 1
Condition for fractional-power viscosity dependence of the average rate constant of solution reactions influenced by slow solvent fluctuations, H. Sumi 212 (1996) 9
Irreversible random transition theory as applied to rate processes in condensed media: Transient effects of constrained configuration rearrangements in complex systems, Yu.A. Berlin 212 (1996) 29
An analytical study of the Berezhkovskii–Pollak–Zitserman theory of rate processes in the critical region. II. The critical coupling plane, S. Singh and G.W. Robinson 212 (1996) 125
A temperature-dependent effective potential explains CO binding to myoglobin, N. Agmon and G.M. Sastry 212 (1996) 207

-photochemical
Remote ionization and recombination through the multichannel electron transfer, A.I. Burshtein and P.A. Frantsuzov 212 (1996) 137

Tunnelling
Control of tunneling reactions with an external field in a four-level system: A general Redfield approach, M. Morillo, C. Denk and R.I. Cukier 212 (1996) 157
Time evolution of the rate constant for the tunneling reaction $H_2 + D \rightarrow H + HD$ in solid D_2–H_2 mixtures at very low temperature, T. Kumada, Y. Aratono and T. Miyazaki 212 (1996) 177

Electron transfer
The disperse kinetics of intercolumnar charge recombination in pulse-irradiated mesomorphic phthalocyanines, J.M. Warman, P.G. Schouten, G.H. Gelinck and M.P. de Haas 212 (1996) 183
Competitive electron transfers in model triad systems: continuum model approach, T. Motylewski, J. Najbar and M. Tachiya 212 (1996) 193

Ionization (including Rydberg states)
Ab initio study on the electronic structure of the $4\,^2\Sigma^+$ and $5\,^2\Sigma^+$ excited states of CO^+, N. Honjou and E. Miyoshi 212 (1996) 363

Molecular motion (including diffusive)
Condition for fractional-power viscosity dependence of the average rate constant of solution reactions influenced by slow solvent fluctuations, H. Sumi 212 (1996) 9

Recovering boundaries for partly diffusion-controlled reaction kinetics, N.J.B. Green, R.D. Spencer-Smith and A.G. Rickerby 212 (1996) 99
Peculiarities of the diffusion of silver and sodium ions in phosphate glasses with a high content of Na_2O, V.M. Syutkin and V.A. Tolkatchev 212 (1996) 149
Conformational flexibility of arginine-82 as source for the heterogeneous and pH-dependent kinetics of the primary proton transfer step in the bacteriorhodopsin photocycle: An electrostatic model, C. Scharnagl and S.F. Fischer 212 (1996) 231
Reversible conformation change of free radicals in X-irradiated glutarimide single crystals studied by ENDOR, N.A. Salih, O.I. Eid, N.P. Benetis, M. Lindgren, A. Lund and E. Sagstuen 212 (1996) 409

Fluctuations and noise
Condition for fractional-power viscosity dependence of the average rate constant of solution reactions influenced by slow solvent fluctuations, H. Sumi 212 (1996) 9
Dissipation and fluctuation for a randomly kicked particle: Normal and anomalous diffusion, E. Barkai and V. Fleurov 212 (1996) 69

Collective motion and excitations
Irreversible random transition theory as applied to rate processes in condensed media: Transient effects of constrained configuration rearrangements in complex systems, Yu.A. Berlin 212 (1996) 29

Thermodynamic and transport properties
Universality of anomalous diffusion in extremely disordered systems, J.C. Dyre and J.M. Jacobsen 212 (1996) 61
Dissipation and fluctuation for a randomly kicked particle: Normal and anomalous diffusion, E. Barkai and V. Fleurov 212 (1996) 69
Reactions controlled by enhanced diffusion: Deterministic and stochastic approaches, G. Zumofen, J. Klafter and M.F. Shlesinger 212 (1996) 89

Structure of solids and liquids
An ab initio perturbed ion study of structural properties of TiO_2, SnO_2 and GeO_2 rutile lattices, A.C. Camargo, J.A. Igualada, A. Beltrán, R. Llusar, E. Longo and J. Andrés 212 (1996) 381

Critical phenomena
An analytical study of the Berezhkovskii–Pollak–Zitserman theory of rate processes in the critical region. II. The critical coupling plane, S. Singh and G.W. Robinson 212 (1996) 125
Temperature dependence of the density of an ionic micellar system near the critical point, A. Compostizo, C. Martín, R.G. Rubio and A. Crespo Colin 212 (1996) 301

Phase transitions
A double origin proposed for the various Mössbauer spectra of biferrocenium salts: charge ordering and molecular bistability, F. Varret, J. Linares and K. Boukheddaden 212 (1996) 487